Pike Industries, Inc.)	Departmental
Somerset County)	Finding of Fact and Order
Fairfield, Maine)	Air Emission License
A-624-71-F-R)	

After review of the air emission license application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. <u>REGISTRATION</u>

A. Introduction

Pike Industries, Inc. (Pike) owns and operates rock crushing and associated mineral processing equipment (C641) at its Fairfield, Maine location. The facility has applied for a renewal Air Emission License, permitting the operation of their crushed stone and gravel facility.

B. Emission Equipment

Rock Crushers:

		Process Rate		Date of
Emission Unit #	Type of Equipment	(tons/hour)	Control Device	Manufacture
C625-AB	Jaw Crusher (Primary)	250	Water spray	1980
C641	Roll Crusher (Secondary)	150	Water Spray	1964

Diesel Unit:

Emission Unit	Source ID	Max. Capacity	Max. Firing Rate	Power Output
Diesel Generator	G641	2.9 MMBtu/hr	21.8 gal/hr	449 hp
3406 CAT (2WB00953)			_	_

C. Application Classification

The application for Pike Industries is classified as non-major based on the emissions from the diesel generator and the unquantifiable rock crusher emissions. The license is for a non-major source and has been processed as such.

Pike Industries, Inc.)	Departmental
Somerset County)	Finding of Fact and Order
Fairfield, Maine)	Air Emission License
A-624-71-F-R	2	

II. BEST PRACTICAL TREATMENT

In order to receive a license, the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Bureau of Air Quality regulations. BPT for new units consists of meeting Best Available Control Technology (BACT). Pike Industries was issued air emission license, A-624-71-E-N, on July 30, 2001, which addressed emissions from their rock crushing plant and established BACT emission limits.

BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology;
- the effectiveness of available alternatives for reducing emissions from the source being considered; and
- the economic feasibility for the type of establishment involved.

A. Rock Crushers

The primary rock crusher was manufactured in 1980 and the secondary rock crusher was manufactured in 1964 with rated capacities of 250 and 150 tons per hour, respectively. The crushers are used to crush Recycled Asphalt Pavement (RAP). The primary and secondary rock crushers are not subject to EPA New Source Performance Standards (NSPS) Subpart OOO for Nonmetallic Mineral Processing Plants. Subpart OOO is applicable to facilities manufactured after August 31, 1983 with capacities greater than 150 tons/hr for portable plants and greater than 25 tons/hr for non-portable plants. Few changes or updates have occurred to this equipment since the original manufactured date.

The regulated pollutant from the rock crushers is particulate emissions. To meet the requirements of Best Practical Treatment (BPT) for control of particulate matter (PM) emissions from the rock crushers, Pike shall maintain water sprays on the rock crushers and operate as needed to control visible emissions. Visible emissions from the rock crushers shall be limited to no greater than 10% opacity on a six (6) minute block average basis.

B. Diesel Unit

The diesel unit is used primarily to power the primary and secondary rock crushers.

A summary of the BPT analysis for Generator #1 (2.9 MMBtu/hr) is the following:

Pike Industries, Inc.)	Departmental
Somerset County)	Finding of Fact and Order
Fairfield, Maine)	Air Emission License
A-624-71-F-R	3	

- 1. The total fuel use for the generator shall not exceed 25,000 gallons per calendar year of diesel fuel with a maximum sulfur content not to exceed 0.05% by weight.
- 2. Chapter 106 regulates fuel sulfur content, however in this case a BPT analysis for SO₂ determined a more stringent limit.
- 3. Chapter 103 regulates PM emission limits. The PM₁₀ limits are derived from the PM limits.
- 4. NO_x, CO, and VOC emission limits are based upon AP-42 data dated 10/96.
- 5. Visible emissions from the generator shall each not exceed 20% opacity on a six (6) minute block average, except for no more than two (2) six (6) minute block averages in a continuous 3-hour period.

C. Stock Piles and Roadways

Visible emissions from fugitive emission sources shall not exceed an opacity of 20%, except for no more than five (5) minutes in any 1-hour period. Compliance shall be determined by an aggregate of the individual fifteen (15)-second opacity observations which exceed 20% in any one (1) hour.

D. General Process Emissions

Visible emissions from general processes (including conveyor belts) shall not exceed an opacity of 10% on a six (6) minute block average basis, except for no more than one (1) six (6) minute block average in a 1-hour period.

E. Facility Emissions

Pike shall be restricted to the following annual emissions, based on a calendar year:

Total Licensed Annual Emissions for the Facility (used to calculate the annual license fee)

Pollutant	Tons/Year
PM	0.3
PM_{10}	0.3
SO_2	0.1
NO_x	7.6
CO	1.6
VOC	0.6

III. AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a renewal source shall be determined on a case-by-case basis. Modeling and monitoring are not required of a renewal if the total emissions of any pollutant released do not exceed the following:

Pike Industries, Inc.)	Departmental
Somerset County)	Finding of Fact and Order
Fairfield, Maine)	Air Emission License
A-624-71-F-R	4	

Pollutant	TPY
PM	25
PM_{10}	25
SO_2	50
NO_x	100
CO	250

Based on the above total facility emissions, Pike is below the emissions level required for modeling and monitoring.

ORDER

Based on the above Findings and subject to conditions listed below the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-624-71-F-R, subject to the following conditions.

<u>Severability</u>. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

STANDARD CONDITIONS

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions. [MEDEP Chapter 115]
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115. [MEDEP Chapter 115]
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if

Pike Industries, Inc.)	Departmental
Somerset County)	Finding of Fact and Order
Fairfield, Maine)	Air Emission License
A-624-71-F-R	5	

construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both. [MEDEP Chapter 115]

- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request. [MEDEP Chapter 115]
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. § 353. [MEDEP Chapter 115]
- (6) The license does not convey any property rights of any sort, or any exclusive privilege. [MEDEP Chapter 115]
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions. [MEDEP Chapter 115]
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request. [MEDEP Chapter 115]
- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license. [MEDEP Chapter 115]
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license. [MEDEP Chapter 115]
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
 - A. perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:

Pike Industries, Inc.)	Departmental
Somerset County)	Finding of Fact and Order
Fairfield, Maine)	Air Emission License
A-624-71-F-R	6	

- 1. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
- 2. pursuant to any other requirement of this license to perform stack testing.
- B. install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
- C. submit a written report to the Department within thirty (30) days from date of test completion.

[MEDEP Chapter 115]

- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
 - A. within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
 - B. the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
 - C. the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.

[MEDEP Chapter 115]

- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement. [MEDEP Chapter 115]
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee

Pike Industries, Inc.)	Departmental
Somerset County)	Finding of Fact and Order
Fairfield, Maine)	Air Emission License
A-624-71-F-R	7	

shall report all excess emissions in the units of the applicable emission limitation. [MEDEP Chapter 115]

(15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status. [MEDEP Chapter 115]

SPECIFIC CONDITIONS

(16) **Rock Crushers**

- A. Pike shall install and maintain spray nozzles for particulate control on the rock crushers and operate them as necessary to limit visible emissions to no greater than 10% opacity on a six (6) minute block average basis. [MEDEP Chapters 115 (BPT) and 101]
- B. Pike shall maintain a log detailing the maintenance on the water spray nozzles. The maintenance log shall be kept on-site at the rock crushing location. [MEDEP Chapter 115, BPT]
- C. Pike shall maintain a log detailing and quantifying the hours of operation on a daily basis for the primary and secondary rock crushers. The operation log shall be kept on-site at the rock crushing location. [MEDEP Chapter 115, BPT]

(17) **Diesel Unit**

- a. Fuel use records and receipts for the diesel unit shall be maintained for at least six years and available to the Department upon request.

 [MEDEP Chapter 115, BPT]
- b. Pike Industries shall not exceed the total use of 25,000 gal/year of diesel fuel (on a calendar year basis), with a sulfur content not to exceed 0.05% by weight. Emissions from the diesel unit shall be limited to the following

<u>Pollutant</u>	<u>Lb/hr</u>	<u>TPY</u>
PM	0.3	0.3
PM_{10}	0.3	0.3
SO_2	0.1	0.1
NO_X	12.8	7.6
CO	2.8	1.6
VOC	1.0	0.6

[MEDEP Chapter 115, BPT]

Pike Industries, Inc.)	Departmental
Somerset County)	Finding of Fact and Order
Fairfield, Maine)	Air Emission License
A-624-71-F-R	8	

visible emissions from the generator shall not exceed 20% opacity on a six
 minute block average, except for no more than two (2) six (6) minute block averages in a continuous 3-hour period.
 [MEDEP Chapter 101]

(18) Stockpiles and Roadways

Visible emissions from fugitive emission sources shall not exceed an opacity of 20%, except for no more than five (5) minutes in any 1-hour period. Compliance shall be determined by an aggregate of the individual fifteen (15)-second opacity observations which exceed 20% in any one (1) hour. [MEDEP Chapter 101]

(19) General Process Sources

Visible emissions from any general process source (including conveyor belts) shall not exceed an opacity of 10% on a six (6) minute block average basis, except for no more than one (1) six (6) minute block average in a 1-hour period. [MEDEP Chapter 101 and Chapter 115, BPT]

(20) **Equipment Relocation** [MEDEP Chapter 115, BPT]

A. Pike shall notify the Bureau of Air Quality, by a written notification at least 48 hours prior to relocation of any equipment carried on this license. Written notice may be sent by mail, facsimile (fax), or e-mail. Notification sent by mail shall be sent to the address below or to a Department Regional Office:

Attn: Relocation Notice Maine DEP Bureau of Air Quality 17 State House Station Augusta, ME 04333-0017

Equipment relocation notification can also be done on-line with e-notice at www.maine.gov/dep/air/compliance/forms/relocation.

The notification shall include the address of the equipment's new location, an identification of the equipment and the license number pertaining to the relocated equipment.

- B. Written notification shall also be made to the municipality where the equipment will be relocated, except in the case of an unorganized territory where notification will be made to the respective county commissioners.
- (21) Pike shall keep a copy of this Order on site, and have the operator(s) be familiar with the terms of this Order. [MEDEP Chapter 115, BPT]

Somer Fairfi	Industries, Inc. erset County ield, Maine 4-71-F-R) Finding	Departmental g of Fact and Order mission License	
(22)	Pike shall notify the Department with Department on a <u>quarterly basis</u> if a component causes a violation of any	malfunction or b	reakdown in any	
(23)	Payment of Fees Pike shall pay the annual air emission each year. Pursuant to 38 MRSA § stated timeframe is sufficient groun MRSA §341-D, subsection 3.	353-A, failure to	pay this annual fee in the	
DONE	E AND DATED IN AUGUSTA, MAIN	IE THIS	DAY OF	2006.
DEPA	ARTMENT OF ENVIRONMENTAL PI	ROTECTION		
BY:	DAVID P. LITTELL, COMMISSION	NER		
The te	erm of this license shall be five (5) yea	ars from the sign	nature date above.	
PLEA	ASE NOTE ATTACHED SHEET FOR	GUIDANCE ON	N APPEAL PROCEDURES	
	of initial receipt of application: April 19 of application acceptance: May 10			
Date f	filed with the Board of Environmental P	Protection:		
This Or	order prepared by Edwin Cousins, Bureau of Air	Quality.		